

# AIR QUALITY PROBLEMS

## IN THE SAN FRANCISCO BAY REGION

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| POLLUTANT       | EXTENT OF PROBLEM*        |       |     |
|-----------------|---------------------------|-------|-----|
|                 | NO. OF DAYS OVER STANDARD |       |     |
|                 | 1-24                      | 25-49 | >50 |
| OXIDANT         | ○                         | ◐     | ●   |
| CARBON MONOXIDE | △                         | ◑     | ▲   |
| PARTICULATES    | □                         | ◒     | ■   |
| SULPHUR DIOXIDE | ▽                         | ◓     | ▼   |

\* Based on observations at monitoring stations.

Sources responsible for air quality problems may not be located in the same areas in which the problems are observed, since winds can transport pollutants from one part of the region to another. Lack of a pollutant symbol at various sites does not necessarily imply no air quality problem exists for that pollutant.

### AIR POLLUTION IN THE BAY AREA BY STATION AND CONTAMINANT: 1974

For oxidant and for nitrogen dioxide, "max" is the highest hourly average value expressed in part per hundred million. For carbon monoxide, "max" is highest 8-hour average value in parts per million. (The one-hour standard for CO was never exceeded during the year.)

For sulfur dioxide, "max" is highest 24-hour average value expressed in parts per million. For total suspended particulates (TSP) "mean" is annual geometric mean in micrograms per cubic meter.

| Stations       | Ox<br>Max. | *1 | **2 | CO<br>Max. | *  | NO <sub>2</sub><br>Max. | * | SO <sub>2</sub><br>Max. | + | TSP<br>Mean | ***  |
|----------------|------------|----|-----|------------|----|-------------------------|---|-------------------------|---|-------------|------|
| San Francisco  | 14         | 4  | 4   | 9.9        | 2  | 16                      | 0 | .070                    | 0 | 57          | 6.0  |
| San Rafael     | 12         | 2  | 8   | 8.1        | 0  | 17                      | 0 | .015                    | 0 | 39          | 2.5  |
| Richmond       | 11         | 1  | 1   | 7.0        | 0  | 15                      | 0 | .041                    | 0 | 45          | 1.7  |
| Pittsburg      | 15         | 21 | 30  | 7.0        | 0  | 11                      | 0 | .028                    | 0 | 50          | 5.0  |
| Concord        | 16         | 20 | 35  | 9.2        | 1  | 20                      | 0 | .021                    | 0 | 46          | 5.0  |
| Walnut Creek   | 15         | 18 | 31  | —          | —  | —                       | — | —                       | — | —           | —    |
| Oakland        | 13         | 3  | 6   | 9.5        | 1  | 25                      | 1 | —                       | — | —           | —    |
| San Leandro    | 18         | 20 | 31  | —          | —  | —                       | — | —                       | — | —           | —    |
| Hayward        | 23         | 35 | 48  | —          | —  | —                       | — | —                       | — | —           | —    |
| Fremont        | 22         | 41 | 61  | 7.6        | 0  | 19                      | 0 | .012                    | 0 | 57          | 9.2  |
| Livermore      | 28         | 83 | 93  | 6.4        | 0  | 18                      | 0 | .006                    | 0 | 74          | 28.2 |
| San Jose       | 28         | 69 | 87  | 16.9       | 14 | 30                      | 4 | .016                    | 0 | 59          | 12.0 |
| Alum Rock (NS) | 24         | 77 | 96  | —          | —  | —                       | — | —                       | — | —           | —    |
| Gilroy (NS)    | 17         | 44 | 63  | 5.9        | 0  | 13                      | 0 | .004                    | 0 | —           | —    |
| Los Gatos      | 25         | 53 | 69  | —          | —  | —                       | — | —                       | — | —           | —    |
| Sunnyvale      | 18         | 31 | 46  | 9.1        | 2  | 31                      | 3 | .008                    | 0 | 41          | 2.5  |
| Mountain View  | 15         | 15 | 18  | —          | —  | —                       | — | —                       | — | —           | —    |
| Redwood City   | 18         | 11 | 20  | 8.8        | 0  | 33                      | 2 | .017                    | 0 | 50          | 5.8  |
| Burlingame     | 16         | 10 | 18  | 9.8        | 2  | —                       | — | .038                    | 0 | 39          | 0.8  |
| Petaluma       | 14         | 10 | 13  | —          | —  | —                       | — | —                       | — | —           | —    |
| Napa           | 10         | 4  | 6   | 8.0        | 0  | 15                      | 0 | .006                    | 0 | 43          | 2.6  |
| San Jose       | 13         | 22 | 32  | 10.1       | 1  | 14                      | 0 | .019                    | 0 | 59          | 6.7  |
| Napa           | 16         | 22 | 28  | 11.9       | 14 | 14                      | 0 | .015                    | 0 | 61          | 14.3 |
| Fairfield      | 15         | 26 | 38  | —          | —  | —                       | — | —                       | — | —           | —    |

(NS) Indicates new station, activated during 1974.

\* Number of days ambient air quality standard was exceeded. \*1 State oxidant standard  $\geq 10$  ppm. \*\*2 Federal oxidant standard  $> 8$  ppm.

+ Percent of observed days when State air quality standard was exceeded.

\*\*\* Percent of observed days when State air quality standard (100 ug/m<sup>3</sup> for 24 hours) was exceeded.

0 10 20 MILES

ASSOCIATION OF BAY AREA GOVERNMENTS

Based on information provided by the Bay Area Air Pollution Control District.

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